Emails Dan Wenman

February 2012

Date: Mon, 20 Feb 2012 23:34:22 +0100

From: Dan Wenman <dwenman@psl.wisc.edu>

To: Paola Tropea <paola.tropea@cern.ch>

Cc: Wolfram Zeuner <Wolfram.Zeuner@cern.ch>,

Nebojsa Smiljkovic <Nebojsa.Smiljkovic@cern.ch>,

Walter Van Doninck <Walter.Vandoninck@cern.ch>,

Ian Crotty <crotty@mail.cern.ch>, Dick Loveless <loveless@hep.wisc.edu>,

Vincent Joseph Delachenal <Vincent.Delachenal@cern.ch>,

Salvatore Buontempo <Salvatore.Buontempo@cern.ch>,

Ball Austin <austin.ball@cern.ch>, Farshid Feyzi <farshid@psl.wisc.edu>

Subject: Proposal for RE4 cooling manifold

Parts/Attachments:

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2 OK 893 KB Application

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Hi Paola,

Attached is a file showing the some details of the RE4 manifold plan we

discussed in December. This file includes a schematic showing that the RE4

manifolds will connect to the 1/2" NPT ports that are currently supplying

the YE3 racks. One each of the racks will then be connected to a 1/2" port

in one of each of the six RE4 manifolds. Each RE4 manifold will also supply

three 20 degree RE4 cooling loops.

This file provides an estimate of the total cooling required on YE3 after

the upgrade and a comparison of the cooling requirements before and after

the upgrade. The components needed for this upgrade are listed. Views of

the RE4 manifold mounted in various locations on the periphery are included.

I will compile a list of of costs for the purchased parts.

Since these assemblies are small, I propose that they me assembled here at

PSL where assembly technique can be closely monitored and then tested for

leaks before they are shipped to CERN. Leak checking of the connections

made on site will be done on site.

Please forward this file to anyone you think should review and let me know

of any comments and suggestions. If the manifold design looks okay, I would

like to start on the detailed drawings for the manifold and an estimate for

the manifold fabrication.

Thanks,

Dan

Dan Wenman

Mechanical Engineer

Physical Sciences Laboratory

University of Wisconsin - Madison

608-877-2278

Part 2, Application/PDF (Name: "coolingYE3\_9feb12\_v2.pdf") 893 ]

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